LISTING OF THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Original) A remote diagnostic unit for use with a heavy vehicle, comprising:

a pin connector communicating with a data bus on the vehicle, the pin connector receiving a signal from the data bus;

a microcontroller receiving and interpreting a standard diagnostic message as a function of the signal received by the pin connector; and

a plurality of lights controlled by the microcontroller as a function of the standard diagnostic message.

- 2. (Original) The remote diagnostic unit as set forth in claim 1, wherein the microcontroller includes a UART.
- 3. (Original) The remote diagnostic unit as set forth in claim 1, further including:

a reset switch, communicating with the microcontroller, for at least one of clearing the diagnostic message from an ECU and causing the ECU to enter a self-configuration mode.

- 4. (Original) The remote diagnostic unit as set forth in claim 1, wherein the diagnostic message indicates a status of an ABS ECU on the vehicle.
- 5. (Original) The remote diagnostic unit as set forth in claim 1, wherein the data bus is a J1587 serial data bus, further including:

a plurality of the pin connectors for communicating with the J1587 serial data bus.

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6. (Original) The remote diagnostic unit as set forth in claim 1, further including:

a signal conditioner, between the pin connector and the microcontroller, for conditioning the signal received by the pin connector into the standard diagnostic message, which is interpreted by the microcontroller.

- 7. (Original) The remote diagnostic unit as set forth in claim 6, wherein the signal conditioner is an RS485 device.
- 8. (Original) The remote diagnostic unit as set forth in claim 1, wherein the microcontroller is a PIC16F870 device.
- 9. (Original) The remote diagnostic unit as set forth in claim 1, wherein the lights include light emitting diodes.
- 10. (Original) A remote diagnostic communication interface for use with a heavy vehicle, comprising:

a pin connector communicating with a data bus on the vehicle, the pin connector receiving a signal from the data bus;

means for conditioning the signal and producing a standard diagnostic message as a function of the signal;

means for receiving and interpreting the standard diagnostic message; and a plurality of lights being selectively illuminated as a function of the standard diagnostic message.

- 11. (Original) The remote diagnostic communication interface as set forth in claim 10, wherein the means for conditioning includes an RS485 device.
- 12. (Original) The remote diagnostic communication interface as set forth in claim 10, wherein the means for receiving and interpreting the standard diagnostic message includes a UART.

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- 13. (Original) The remote diagnostic communication interface as set forth in claim 12, wherein the means for receiving and interpreting the standard diagnostic message includes a PIC16F870 device.
- 14. (Original) The remote diagnostic communication interface as set forth in claim 10, wherein the pin connector communicates with the data bus via a vehicle connector.
- 15. (Original) The remote diagnostic communication interface as set forth in claim 10, further including:

a reset switch, communicating with the means for receiving and interpreting the standard diagnostic message, for at least one of selectively clearing an ECU and selectively causing the ECU to enter a reconfiguration mode.

16. (Original) The remote diagnostic communication interface as set forth in claim 15, wherein:

the reset switch is activated in response to a magnet;

the ECU is cleared when the reset switch is activated for a first period of time;

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the ECU enters the reconfiguration mode when the reset switch is activated for a second period of time.

17. (Original) The remote diagnostic communication interface as set forth in claim 10, wherein:

the lights are light emitting diodes; and

the standard diagnostic message indicates a fault status of an associated ECU.

18. (Original) A system for diagnosing an electrical system on a heavy vehicle, the system including:

an electronic control unit;

a data bus communicating with the electronic control unit; and

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5 a remote diagnostic unit, including:

a pin connector;

a microcontroller receiving and interpreting a standard diagnostic message as a function of the signal received by the pin connector; and

a plurality of lights controlled by the microcontroller as a function of the standard diagnostic message.

19. (Original) The system for diagnosing an electrical system as set forth in claim 18, further including:

a reset switch, communicating with the microcontroller, for one of clearing the diagnostic message from an ECU and transmitting a self-configuration command to the ECU.

- 20. (Original) The system for diagnosing an electrical system as set forth in claim 18, wherein the data bus is a J1587 serial data bus.
- 21. (Original) The system for diagnosing an electrical system as set forth in claim 18, further including:

a vehicle pin connector, communicating with the data bus, which mates with the pin connector of the remote diagnostic unit.

- 22. (Original) The system for diagnosing an electrical system as set forth in claim 18, wherein the standard diagnostic message indicates a fault status of the electronic control unit.
- 23. (Original) The system for diagnosing an electrical system as set forth in claim 18, wherein the microcontroller includes a UART.
- 24. (Original) The system for diagnosing an electrical system as set forth in claim 18, wherein the data bus is a J1587 serial data bus.

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25. (Original) A method for remotely displaying a fault status of an electronic control unit, the method comprising:

determining the fault status of the electronic control unit;

transmitting a signal from the electronic control unit to the data bus, the signal

indicating a standard message for identifying a fault status of the electronic control unit; receiving the signal into a remote diagnostic unit;

interpreting the signal as the standard message within the remote diagnostic unit;

illuminating selected lights on the remote diagnostic unit as a function of the standard message.

26. (Original) The method for remotely displaying a fault status as set forth in claim 25, wherein the interpreting includes:

conditioning the signal into the standard message; and identifying the fault status as a function of the standard message.

27. (Original) The method for remotely displaying a fault status as set forth in claim 26, wherein:

the conditioning includes:

transforming the signal into the standard message in a circuit including an RS485; and

the identifying includes:

identifying the fault status within a UART included within a microcontroller of the remote diagnostic unit.

28. (Original) The method for remotely displaying a fault status as set forth in claim 25, further including:

activating a reset switch for at least one of clearing the electronic control unit and causing the electronic control unit to enter a reconfiguration mode.

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29. (Original) The method for remotely displaying a fault status as set forth in claim 28, wherein the reset switch is a magnetic switch, the activating including: passing a magnet within a range for causing a response in the magnetic switch.